CodeMark

Certificate no: CM20099
Version: 04
Original issue date: 18 October 2022
Version date: 17 November 2025

Product Certificate

Kingspan Insulation NZ Ltd
Kooltherm® K12 Framing Board

1. Certificate Holder Details

Kingspan Thermakraft

Kingspan Insulation NZ Ltd
11 Turin Place, Otara, Auckland – 2013, NZ.
Tel: 0800 806 595
info@kingspaninsulation.co.nz
https://www.kingspan.com/nz/en

2. Product Certification Body

intertek SAI GLOBAL

SAI Global Certification Services Pty Limited
(ACN 108 716 669) Trading as "SAI Global"
Operating as "Intertek & Intertek SAI Global"
Address: Level 7 Suite 7.01. 45 Clarence Street, Sydney NSW 2000 Australia
www.saiglobal.com

Complaints: The complaints process for this certificate can be found here: https://saiassurance.com.au/complaints-appeals/

3. Description of Building Method or Product

Kooltherm® K12 Framing Board is a fibre-free rigid thermoset phenolic insulation, faced on both sides with a low emissivity composite foil autohesively bonded to the insulation core.

*Matters that should be taken into account in the use or application of the building method or product can be found in item **6. Conditions and Limitations of Use***
*Continuation of description can be found in item **10 – Supporting Information about Description**.*

Catalogue or model identification numbers

- K12

4. Intended use of Building Method or Product

Kooltherm® K12 Framing Board is a thermal insulation for use behind wall linings over Concrete or Block construction, and Timber or Steel framed construction.

*Continuation of intended use can be found in item **11 – Supporting Information about Intended use**.*

5. New Zealand Building Code Provisions

Clause B1 – Structure – B1.3.1, B1.3.2, B1.3.3(a)(h), B1.3.4
Clause B2 – Durability – B2.3.1(a)
Clause E3 – Internal Moisture – E3.3.1 (contributes to)
Clause F2 – Hazardous Building Materials – F2.3.1
Clause H1 – Energy Efficiency – H1.3.1 (contributes to), H1.3.2E (contributes to)

*How the building method or product complies or contributes can be found in item **8. Basis for Certification.***
*Any qualifications to the extent of that compliance can be found in item **6. Conditions and limitations of use.***

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6. Conditions and Limitations of Use

1. Kingspan Kooltherm® K12 Framing Board must be installed in accordance with the Kooltherm K12 Framing Board – Installation Guide (KINGZ-K12IG, Version 10.0, April 2025), either by or under the supervision of a Licensed Building Practitioner, ensuring the board remains free from any damage, dents, or fractures during installation.
2. Designers should ensure compatibility of materials in contact with K12 framing board when used with steel framing systems.
3. Kingspan Kooltherm® K12 Framing Board cannot be permanently exposed to weather elements.
4. Kingspan Kooltherm® K12 Framing Board is not a component for structural bracing.
5. Fixing of the Kingspan Kooltherm® K12 Framing Board to the external side of the timber/steel framing in conjunction with Heavy weight cladding, as defined in NZS3604:2011, has not been assessed and is not covered within this certification. Specific Engineered Design details need to be generated by the designer in these scenarios.
6. Fixing of the Kingspan Kooltherm® K12 Framing Board to the external side of the timber/steel framing in wind zones over EH (Extra High), as defined in NZS3604:2011, has not been assessed and is not covered within this certification. Specific Engineered Design details need to be generated by the designer in these scenarios.

NOTE: Together, items 3,4,5 and 6 define scope of use

Reference Documents:

- Installation Guide - Kooltherm® K12 Framing Board - Wall Insulation - KINZ-K12IG, v10.0, April 2025.

7. Health and Safety Information

Reference Documents:

- Installation Guide - Kooltherm® K12 Framing Board - Wall Insulation - KINZ-K12IG, v10.0, April 2025.
- Safety Data Sheet – Kooltherm KoolDuct – KIAU0179, Third issue, February 2024.

8. Basis for Certification

- **B1 Structure –** by testing and comparison with provisions of Verification Method B1/VM1 and Acceptable Solution B1/AS1.
- **B2 Durability –** by testing and comparison with provisions of Verification Method B2/VM1 and Acceptable Solution B2/AS1.
- **E3 Internal Moisture –** by comparison with provisions of Acceptable Solution E3/AS1.
- **F2 Hazardous Building Materials –** by analysis and comparison with the Performance Requirements of F2.3.1.
- **H1 Energy Efficiency –** by testing and comparison with acceptable solutions H1/AS1, H1/AS2, and verification methods H1/VM1, H1/VM2

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9. Supporting Documentation for Certification

Building regulations 1992 (SR 1992/150) – Version as of 23 December 2023.

Acceptable Solutions and Verification Methods for New Zealand Building Code:

- **Clause B1 Structure –** B1/VM1, B1/AS1, 1st edition, (Amendment 21, 02 November 2023).
- **Clause B2 Durability –** B2/AS1, B2/VM1, 2nd edition (Amendment 12, 28 November 2019).
- **Clause E3 Internal Moisture –** E3/AS1**,** 2nd edition (Amendment 7, 5 November 2020).
- **Clause F2 Hazardous Building Materials** – 1st edition (Amendment 3, 1 January 2017).
- **Clause H1 Energy Efficiency –**
    a. H1/AS1, Acceptable Solution, Energy efficiency for all housing, and buildings up to 300 m^2, 5th edition (Amendment 1, 4 August 2022),
    b. H1/AS2, Acceptable Solution, Energy efficiency for all buildings greater than 300 m^2, 1st edition (Amendment 1, 4 August 2022),
    c. H1/VM1, Verification Method, Energy efficiency for all housing, and buildings up to 300 m^2,5th edition (Amendment 1, 4 August 2022),
    d. H1/VM2, Verification Method, Energy efficiency for all buildings greater than 300 m^2, 1st edition (Amendment 1, 4 August 2022).

Test Reports

Basis for Certification	New Zealand Building Code Provisions	Test Report Number
B1 Structure	**Clause B1 Structure** — B1.3.1, B1.3.2, B1.3.3(a)(h), B1.3.4	7
B2 Durability	**Clause B2 Durability** — B2.3.1(a)	-
E3 Internal moisture	**Clause E3 Internal moisture** – E3.3.1 (contributes to)	-
F2 Hazardous building materials	**Clause F2 Hazardous building materials** — F2.3.1	6
H1 Energy efficiency	**Clause H1 Energy efficiency** — H1.3.1(contributes to); H1.3.2E (contributes to)	1,2,3,4,5

1. **Thermal Value Summary Report for 25-44mm thick Kooltherm, AUS IMF 250, Somerton Site, date: 27/03/2024 (Live).** This spreadsheet provides a summary of testing as per AS/NZS 4859.1:2018 of the Kingspan Kooltherm Range of 25-44mm thickness to ASTM C518 testing at 23 deg temperature and calculations to 15 deg temperature (NZ).
2. **Thermal Value Summary Report for >= 45mm thick Kooltherm, AUS IMF 250, Somerton Site, date: 27/03/2024 (Live).** This spreadsheet provides a summary of testing as per AS/NZS 4859.1:2018 of the Kingspan Kooltherm Range of >=45mm thickness to ASTM C518 testing at 23 deg temperature and calculations to 15 deg temperature (NZ).

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3. **AWTA - Steady-State Thermal transmission property by means of the Heat Flow Apparatus, ASTM C518-2021(>=45 mm):** ASTM C518-2021 testing using a Heat Flow Apparatus determines a material's ability to conduct heat by measuring its thermal conductivity under steady-state conditions.
   i. Test number 25-001213, issued on 23/04/2025, K10 100mm.
   ii. Test number 25-001214, issued on 23/04/2025, K10 100mm.
   iii. Test number 25-000694, issued on 28/02/2025, K10 100mm.
   iv. Test number 25-000699, issued on 05/03/2025, K10 100mm.
   v. Test number 25-000696, issued on 03/03/2025, K10 45mm.
   vi. Test number 25-000697, issued on 04/03/2025, K10 50mm.
   vii. Test number 25-000450, issued on 25/02/2025, K10 45mm.
   viii. Test number 25-000701, issued on 05/03/2025, , K10 50mm.
   ix. Test number 25-000449, issued on 26/02/2025, K10 50mm.
   x. Test number 25-000451, issued on 26/02/2025, K10 50mm.

4. **AWTA - Steady-State Thermal transmission property by means of the Heat Flow Apparatus, ASTM C518-2021(<45 mm):** ASTM C518-2021 testing using a Heat Flow Apparatus determines a material's ability to conduct heat by measuring its thermal conductivity under steady-state conditions.
   i. Test number 24-003959, issued on 04/11/2024, K3 25mm.
   ii. Test number 25-000436, issued on 12/02/2025, K3 25mm.
   iii. Test number 25-000702, issued on 05/03/2025, K10 25mm.
   iv. Test number 25-000698, issued on 04/03/2025, K10 25mm.
   v. Test number 24-003958, issued on 04/11/2024, , K10 25mm.
   vi. Test number 24-003938, issued on 31/10/2024, K10 40mm.
   vii. Test number 24-003957, issued on 1/11/2024, K10 40mm.
   viii. Test number 24-003955, issued on 1/11/2024, K10 40mm.
   ix. Test number 24-003954, issued on 1/11/2024, , K10 40mm.
   x. Test number 24-003956, issued on 1/11/2024, , K10 40mm.

5. **OTM Solutions, Material Surface Emittance Test, K8 cavity board. Report No. OTM2101019 (test dated 23/01/2021, report date 25/01/2021).** This report provides the results to testing ASTM C1371-15 (Standard test method for determination of emittance of materials near room temperature using portable emissometers) as identified in AS4859.1:2018, for Kingspan Kooltherm K8 Cavity Board / Kingspan Kooltherm K12 Framing Board Foil

6. **D.A.L (Dowdell Associates), Asbestos identification certificate, AS4964(2004), Job number: 24-114784, issued on 09/08/2024.**

This report provides the results to testing to AS 4964 (2004) Method for Qualitative identification of Asbestos in Bulk Samples, Kingspan Kooltherm K17. (IANZ accredited lab: 5535)

7. **BRANZ – Structures Test Report for Kingspan K12 Insulation, Report no.ST-18460, 21 June 2024.** This test report provides the results of a series of connection tests on the Kingspan K12 product designed to be fixed to the exterior of a building, to ensure that the performance complies with the NZBC, specifically the requirement for light-medium weight cladding as outlined by NZS 3604:2011 & wind loadings as per AS/NZS 1170.2:2011 (EH), where applicable to the fixing system type.

10. Supporting Information About Description

The K12 Framing Board consists of three layers. The facing on both sides is a low emissivity composite foil autohesively bonded to the insulation core during manufacture. The core is a fibre free rigid thermoset phenolic insulation.
Components:
The components are detailed in the manufacturer's technical literature, and consist of:

- Kooltherm K12 Framing Board

Referenced Documents:

- Product Data Sheet - Kooltherm® K12 Framing Board KINZ-K12DS, v13.0, October 2025.

11. Supporting Information About Intended Use

Kooltherm® K12 Framing Board is a thermal insulation for use behind wall linings over Concrete or Block construction, and Timber or Steel framed construction.

Referenced Documents:

- Installation Guide - Kooltherm® K12 Framing Board - Wall Insulation - KINZ-K12IG, v10.0, April 2025.

12. Supporting Information About Conditions and Limitations of Use

No additional Information required.

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Signatures

Name and Signature of the Product Certification Body's (PCB) authorised representative and, where different, the person assigned by the PCB to make the certification decision.

Rathin Grover

President, Business Assurance

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. Please find the register here.

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.